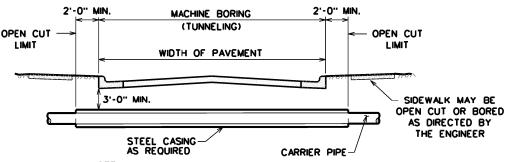


SEWER WARNING AND MANHOLE IDENTIFICATION SIGN

NEAREST BELL-JOINT (TYP. EA. END) ^_ 1" MMN. CLR. STEEL CASING CARRIER PIPE - CASING SPACER 1-PC. PULL-ON WATER-TIGHT NEOPRENE END SEAL W/ STN. STL. CLAMPS "APS" OR "PSI" ADJUSTABLE TOP RUNNERS TO MAINTAIN 1" MAX CLR. STEEL CASING BAND CLAMP AT SPRINGLINE NOTE: CASING SPACERS 4-RUNNER MIN. (THRU 24' DIA 8" WIDE BAND STAINLESS STEEL (TYPE 304) CASING) OR 6-RUNNER MIN. (24"-42" DIA. CASING) STAINLESS STL. TYPE304: 8" WIDE BAND PROVIDE 4 --RUNNERS AT BOTTOM NEOPRENE INSULATION SLEEVE BETWEEN PIPE AND BAND W/ POLYMER RUNNERS: CENTERED OR NON-CENTERED; CLEAR BELL, RESTRAINED FROM FLOTATION: INSULATED: "APS, INC., MOD SS18" POLYMER RUNNER (TYP) **CASING DETAIL**



 FOR MORE INFORMATION ON WATER AND SEWER LINE CROSSING SEE CITY STANDARD SPECIFICATION FOR WATER AND SEWER LINE CONSTRUCTION.

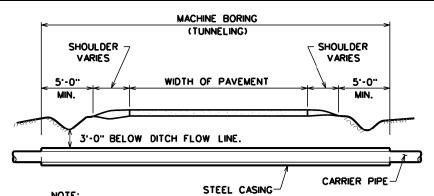
2. STEEL CASING SHALL BE AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS. 3. DRY BORING PREFERRED, WET BORING ALLOWED ONLY WHEN

APPROVED BY THE CITY ENGINEER.

TYPICAL URBAN CITY STREET CROSSING

S3-02

S3-01



1. FOR MORE INFORMATION ON WATER AND SEWER LINE CROSSING SEE CITY STANDARD SPECIFICATION FOR WATER AND SEWER LINE CONSTRUCTION.

2. STEEL CASING SHALL BE AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS.

3. DRY BORING IS REQUIRED.

S3-05

TYPICAL RURAL STREET CROSSING





DRAWN BY: C.L.M. DATE: 01-01-09 SCALE: N T S APPROVED: W.P.K.

FIGURE: \$3 SHEET 3 OF 4

S3-03